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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/597,463	09/06/2006	Sabrina Higgins	102792-606 (11381P1 US)	1493
27389	7590	09/04/2008	EXAMINER	
NORRIS, MC LAUGHLIN & MARCUS			MCKANE, ELIZABETH L	
875 THIRD AVE			ART UNIT	PAPER NUMBER
18TH FLOOR			1797	
NEW YORK, NY 10022				
MAIL DATE		DELIVERY MODE		
09/04/2008		PAPER		

**Please find below and/or attached an Office communication concerning this application or proceeding.**

The time period for reply, if any, is set in the attached communication.

<b>Office Action Summary</b>	<b>Application No.</b>	<b>Applicant(s)</b>	
	10/597,463	HIGGINS ET AL.	
	<b>Examiner</b>	<b>Art Unit</b>	
	ELIZABETH L. MCKANE	1797	

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

#### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

#### Status

1) Responsive to communication(s) filed on 26 July 2006.  
 2a) This action is FINAL.                    2b) This action is non-final.  
 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

#### Disposition of Claims

4) Claim(s) 1-9 is/are pending in the application.  
 4a) Of the above claim(s) \_\_\_\_\_ is/are withdrawn from consideration.  
 5) Claim(s) \_\_\_\_\_ is/are allowed.  
 6) Claim(s) 1-9 is/are rejected.  
 7) Claim(s) \_\_\_\_\_ is/are objected to.  
 8) Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

#### Application Papers

9) The specification is objected to by the Examiner.  
 10) The drawing(s) filed on \_\_\_\_\_ is/are: a) accepted or b) objected to by the Examiner.  
     Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
     Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  
 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

#### Priority under 35 U.S.C. § 119

12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).  
 a) All    b) Some \* c) None of:  
 1. Certified copies of the priority documents have been received.  
 2. Certified copies of the priority documents have been received in Application No. \_\_\_\_\_.  
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

\* See the attached detailed Office action for a list of the certified copies not received.

#### Attachment(s)

1) <input checked="" type="checkbox"/> Notice of References Cited (PTO-892)	4) <input type="checkbox"/> Interview Summary (PTO-413)
2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Date. _____ .
3) <input checked="" type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) Paper No(s)/Mail Date <u>07262006, 08232006, 10132006</u> .	5) <input type="checkbox"/> Notice of Informal Patent Application
	6) <input type="checkbox"/> Other: _____ .

***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claim 9 is rejected under 35 U.S.C. 102(b) as being anticipated by Katsuma et al. (EP 682942).

Katsuma et al. teaches an oil-in-water emulsion comprising 1-50% of a terpene such as spearmint oil. See page 3, lines 16 and 23-25; claim 3.

***Claim Rejections - 35 USC § 103***

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. The factual inquiries set forth in *Graham v. John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:

1. Determining the scope and contents of the prior art.
2. Ascertaining the differences between the prior art and the claims at issue.
3. Resolving the level of ordinary skill in the pertinent art.
4. Considering objective evidence present in the application indicating obviousness or nonobviousness.

Art Unit: 1797

5. Claims 1-5 and 8 are rejected under 35 U.S.C. 103(a) as being unpatentable over McKechnie et al. (WO 01/76371) in view of Blanc (US 5,635,132).

McKechnie et al. teaches a method of deactivating a dust mite allergen wherein a deactivating compound in the form of an oil-in-water emulsion of a terpene-containing essential is dispersed into the airspace as a vapor. See page 2, lines 17-20 and 26.

The oil may be dispersed by heat applied to the emulsion (page 3, lines 8-9).

McKechnie et al. discloses using the terpene in an amount of 5%. See page 4, lines 30-33. Blanc also discloses a method of dispersing terpene-containing essential oils into an airspace in order to control dust mite allergens. See col.1, lines 61 to col.2, line 11; col.3, lines 38-40. Blanc teaches that the essential oils may be used in amount up to 20% of the composition.

Thus, it would have been obvious to one of ordinary skill in the art to increase the amount of terpene-containing essential oil in the oil-in-water emulsion of McKechnie et al. where the level of dust mite allergens was very large as Blanc evidences the safety of using essential oils at high concentrations. It is further noted that concentration is a known result effective variable. It is within the purview of one in the art to optimize the concentration of the essential oil in McKechnie et al. as being a result effective variable.

Moreover, as to contact time of the essential oil with the air, again this is a readily optimized result effective variable. One of ordinary skill in the art would have found it obvious to optimize contact time for the most efficient treatment of the space.

6. Claim 6 is rejected under 35 U.S.C. 103(a) as being unpatentable over McKechnie et al. and Blanc as applied to claim 1 above, and further in view of Franklin et al. (WO 03/070286).

While McKechnie et al. teaches use of terpene hydrocarbons as the deactivant, the use of β-pinene is not disclosed. Franklin et al. discloses a composition for control of dust mite allergens within a space. See page 5, line 14-15; page 8, lines 7-9, lines 20-27. The composition contains a terpene, water, and a surfactant and the terpene may be pinene. See page 9, lines 4-11. It would have been obvious to one of ordinary skill in the art at the time of the invention to use pinene as the terpene of McKechnie et al. since Franklin et al. has evidenced its effectiveness against a variety of airborne contaminants, including dust mite allergens.

7. Claim 7 is rejected under 35 U.S.C. 103(a) as being unpatentable over McKechnie et al. and Blanc as applied to claim 1 above, and further in view of Pullen (US 6,500,445).

While McKechnie et al. teaches use of terpene-containing essential oils as the deactivant, the use of orange oil is not disclosed. Pullen discloses a composition for control of dust mite allergens within a space. See Abstract. The composition contains a terpene-containing essential oil such as orange oil. See col.2, lines 48-62. It would have been obvious to one of ordinary skill in the art at the time of the invention to use orange oil as the terpene-containing essential oil of McKechnie et al. since Pullen teaches that terpene-containing essential oils such as orange oil are effective, non-toxic pesticides for dust mites.

***Conclusion***

8. Any inquiry concerning this communication or earlier communications from the examiner should be directed to ELIZABETH L. MCKANE whose telephone number is (571)272-1275. The examiner can normally be reached on Mon-Fri; 5:30 a.m. - 2:00 p.m..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Jill Warden can be reached on 571-272-1267. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Elizabeth L McKane/  
Primary Examiner, Art Unit 1797

elm  
1 September 2008